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<b>(21) International Application Number:</b> PCT/US97/06966 <b>(22) International Filing Date:</b> 1 April 1997 (01.04.97)  <b>(30) Priority Data:</b> 08/630,800                      10 April 1996 (10.04.96)                      US  <b>(71) Applicant:</b> REXENE CORPORATION [US/US]; Occidental Tower, Suite 500, 5005 LBJ Freeway, Dallas, TX 75244 (US).  <b>(72) Inventors:</b> MCHANEY, Stephen, C.; 6305 Bainbridge Drive, Odessa, TX 79762 (US). OETTING, Steven, L.; 3601 Northfield Drive, Midland, TX 79709 (US). HERZOG, Karl, L.; 2901 Deering, Odessa, TX 79762 (US).  <b>(74) Agents:</b> FANUCCI, Allan, A. et al.; Pennie & Edmonds L.L.P., 1155 Avenue of the Americas, New York, NY 10036 (US).			<b>(81) Designated States:</b> AU, CA, CN, JP, KR, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> METHOD AND APPARATUS FOR PRODUCT RECOVERY OF POLYOLEFINS			
<b>(57) Abstract</b>  A method and apparatus for product recovery of polyolefins, particularly high molecular weight amorphous poly alphaolefins, wherein the use of water during the method is significantly decreased and wherein the intermediate stage of storing and drying the chunk form of the polyolefin is eliminated. Polyolefins produced in a reactor are heated and mixed by sigma blades in a kneader-extruder to remove any unreacted monomer(s). The polyolefin material in a liquid form is then transferred directly to an extruder to further remove any unreacted monomer(s) and catalyst(s). The invention further includes a method of measuring the inventory in a vessel using a gas of known quantity and known thermodynamic properties.			

\* (Referred to in PCT Gazette No. 52/1997, Section II)

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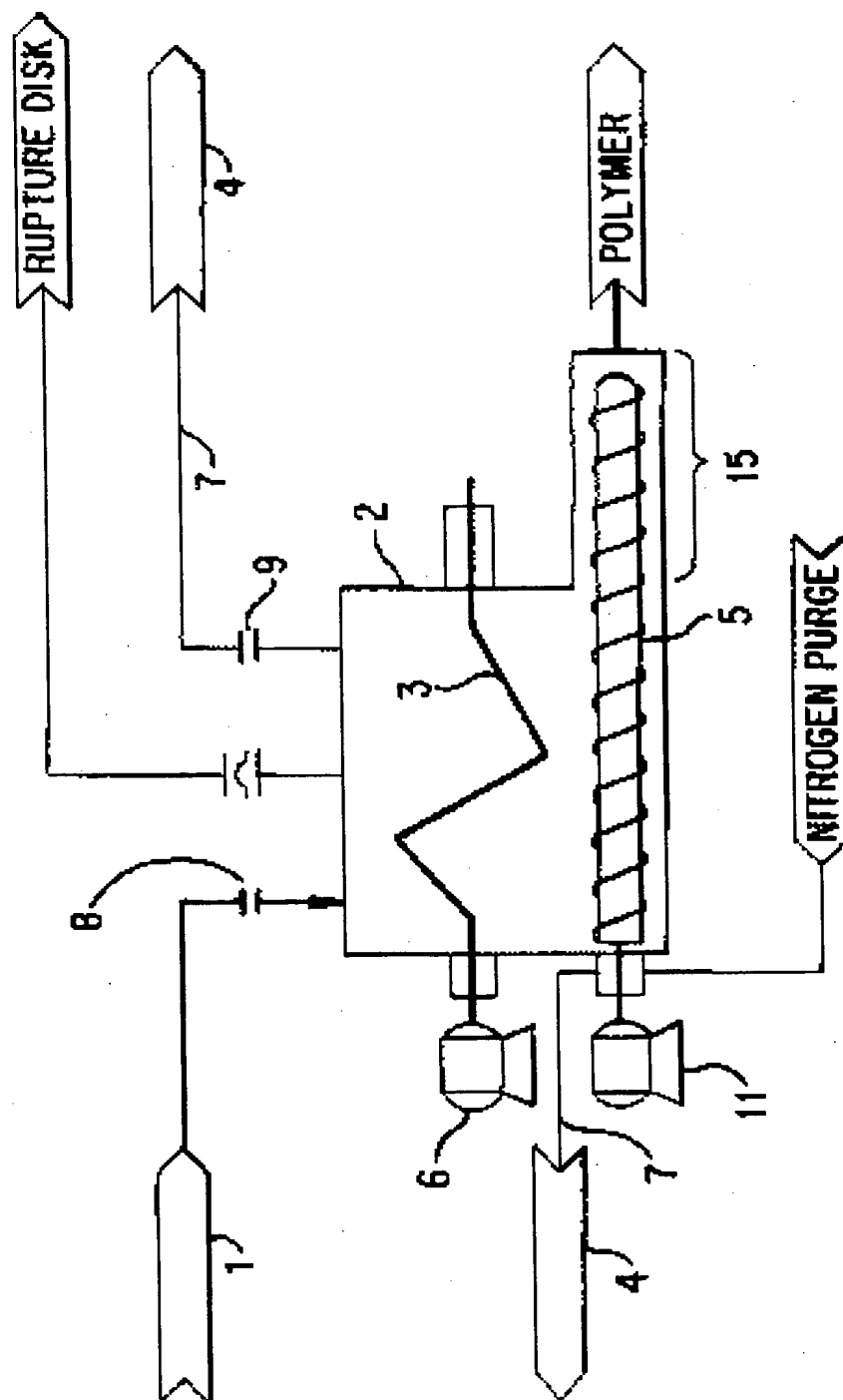
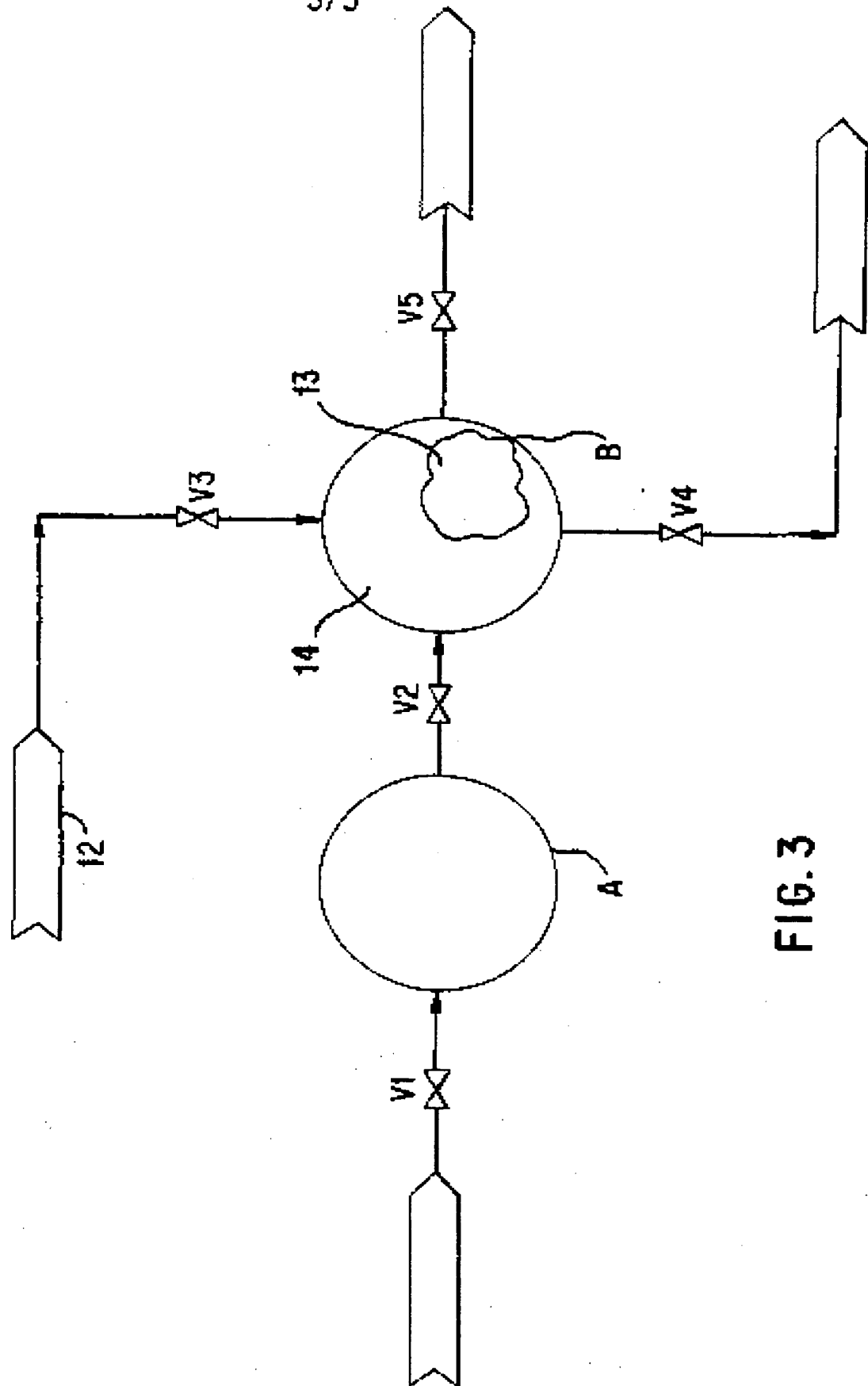


Fig. 1

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**FIG. 3**

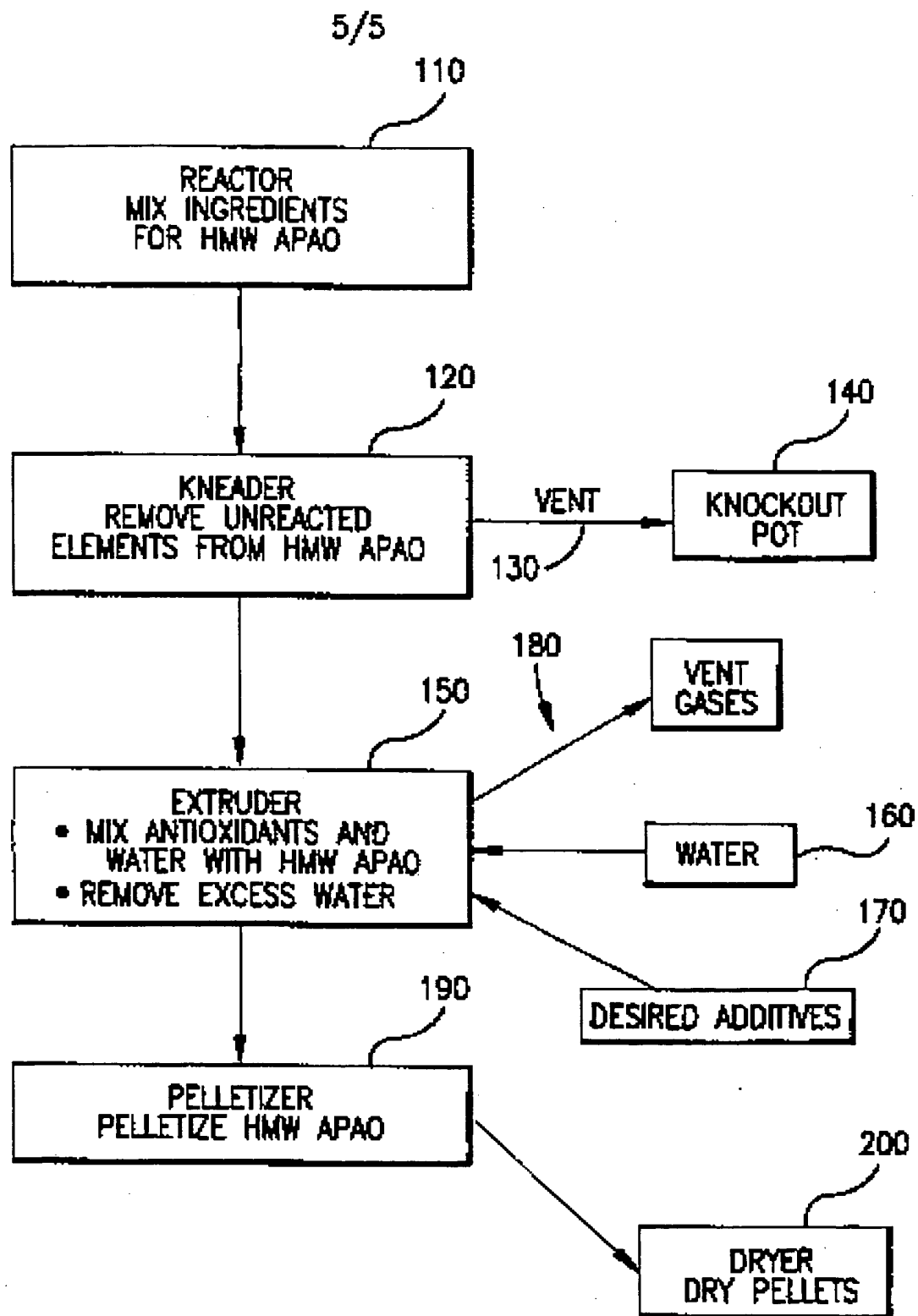


FIG.5

cited in the European Search  
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